WHAT IS CLAIMED IS:

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- A method of treating action tremor in a subject comprising:
 administering to a subject in need of such treatment a pharmaceutical composition comprising zonisamide, or a pharmaceutically acceptable salt thereof, in an amount effective to treat tremor.
- 2. The method according to Claim 1, wherein said action tremor is a postural tremor.
- The method according to Claim 1, wherein said action tremor is essential tremor, drug-induced or toxic tremor, cerebellar tremor, primary orthostatic tremor, dystonic tremor or neuropathic tremor.
 - 4. The method according to Claim 3, wherein said action tremor is essential tremor.
 - 5. A method of treating severe essential tremor in the rest state in a subject comprising: administering to a subject in need of such treatment a pharmaceutical composition comprising zonisamide, in an amount effective to treat tremor.
- The method according to Claim 1, wherein said effective amount of zonisamide is in the range of about 0.5-10 mg/kg/day.
 - 7. The method according to Claim 1, wherein said pharmaceutical composition is administered orally to said subject.
 - 8. The method according to Claim 1, wherein said pharmaceutical composition is administered parenterally to said subject.
- 9. The method according to Claim 8, wherein said pharmaceutical composition is a sterile solution comprising zonisamide sodium.

- 10. The method according to Claim 8, wherein said pharmaceutical composition is administered intravenously, subcutaneously, or intramuscularly.
- The method according to Claim 1, wherein said pharmaceutical composition is administered in combination with another therapeutic agent or treatment commonly used to treat tremor.